



ARDEX K 71

Rapid Drying Thick Layer Levelling

- Rapid drying formula minimises downtime
- Install from 3mm to 30mm neat, or up to 50mm incorporating aggregates
- High final strength
- Suitable for residential, commercial and industrial areas
- Very low tension
- Pumpable



Description

Grey powder with special cements, selected mineral fillers and easily dispersible plastics.

ARDEX K 71 is a cement-based compound for resurfacing concrete floors to create a hard, smooth, flat wearing surface, or base for coatings. It incorporates the unique ARDEX 'Rapidry Formula' which chemically binds the mixing water, allowing it to dry rapidly while developing high strength.

Mixed with water, ARDEX K 71 is a fluid self-levelling mortar which can be applied by pump, or hand trowel at an application thickness from 3-30mm neat, or up to 50mm incorporating aggregate.

Use

Indoor. Floor.

Thick layer levelling for levelling:

- Cement screed and concrete floors
- Calcium sulphate screed
- Old substrates with firmly adhering, waterproof adhesive residues
- Mastic asphalt screed
- Magnesite screed
- Dry screed elements
- Ceramic tiles and slabs
- Terrazzo floors
- and other suitable substrates

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40802 EN 13813:2002 40802 ARDEX K 71 EN 13813:CT-C30-F7; Polimer Modified Cementitious screed for internal use EN 13813:CT-C30-F7	
Reaction to fire:	A1
Release of corrosive substances:	CT
Water permeability:	NPD
Water vapour permeability:	NPD
Compressive strength:	C30
Flexural strength:	F7
Wear resistance according to BCA:	NPD
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD



ARDEX Turkey is a subsidiary of the international ARDEX Group.

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For subsequent laying of textile and elastic floor coverings such as design flooring/LVT, rubber coverings, linoleum, PVC and CV coverings, ready-made and solid parquet, ceramics, natural stone and large-format tiles.

Substrate Preparation

Concrete floors must be clean dry and free of dust, wax, grease, asphalt, latex compounds, curing and sealing compounds and any other surface contaminant that can affect adhesion. Mechanically prepare the concrete by scabbling, grinding, or shot blasting to expose the aggregate, then vacuum thoroughly before priming.

The surface must have the minimum tensile and compressive strength specified in the standards, or it must be prepared in a way that ensures these requirements are met. The concrete must have a minimum surface tensile strength of 0.8 N/mm² (1.5 N/mm² for heavy-duty applications or resin coatings).

Cracks and joints must be repaired properly and professionally, e.g. with ARDEX P 10 SR 2-K rapid repair resin.

Calcium sulphate self-levelling screeds must be pre-treated in accordance with the applicable planning and execution guidelines for self-levelling screeds.

On glossy and non-absorbent substrates, if necessary, prime the entire surface with ARDEX EP 2000 or SEIRE Seirepox TOP PLUS M epoxy primer. The primer should be applied in one coat using quartz sand with a thickness of 2–4 mm.

Weak concrete surfaces must be mechanically prepared down to solid concrete.

Direct to earth subfloors must contain an effective damp proof membrane. If the DPM is absent or damaged, or the substrate is damp, consult the ARDEX DPM 1 C datasheet for further information.

If the substrate is absorbent, the surface must be primed with ARDEX P 51, ARDEX P 51 Mix, or ARDEX P 82, depending on the water absorbency of the substrate. Before applying the primer, dust, dirt, and residues on the surface must be removed. In some cases, it may be necessary to apply two coats of primer. Allow the primer to dry before applying the final ARDEX K 71 layer at a minimum of 5mm thick.

Observe the technical data sheets for the corresponding products.

Application

Pour clear water into a clean mixing container and stir vigorously, adding enough powder to produce a lump-free mortar. Approximately 4.5 litres of water are required to mix 25 kg of ARDEX K 71 powder.

The prepared fluid mortar is poured onto the floor and gently spread over the surface with a trowel. If necessary, the surface is then rolled with a spiked roller.

ARDEX K 71 can be processed for approx. 25 minutes at +18°C to +20°C, with lower temperatures extending the working time and higher temperatures shortening it. ARDEX K 71 thick-layer levelling compound should be applied at temperatures above +5°C.

ARDEX K 71 can be applied undiluted in a single coat up to a thickness of 30 mm. For layer thicknesses above 10 to 30 mm, the mortar can be extended with sand. Above 30 mm to max. 50 mm, the mortar must be extended with sand.

Sand mixing ratios:

By volume, 1 unit of mortar, 0.3 unit of 0–4 mm washed sand

By volume, 1 unit of mortar, 0.3 unit of 0–8 mm washed sand

Note: When aggregate mixes are used, after priming, a minimum 5 mm thick levelling layer of ARDEX K 71 is required over the primer applied with ARDEX P 51 Mix.

On mastic asphalt screeds of hardness classes IC10 and IC15, ARDEX K 71 thick-layer levelling compound can be applied up to a layer thickness of 5 mm.

ARDEX K 71 can be applied up to a layer thickness of 10 mm on dry screed elements that are 2-layer, bonded and screwed.

If elastic or textile floor coverings are to be laid, a fine levelling compound from the ARDEX range may be required.

Spiral pumps, reciprocating pumps and continuously working mixing pumps with a delivery rate of approx. 20–40 litres of mortar per minute are suitable for pumping the mortar. Cement slurry must not be used as a lubricating fluid. The machine and hoses must be cleaned after periods of inactivity exceeding 30 minutes.

Considerations

ARDEX K 71 can be processed for approx. 25 minutes at +18°C to +20°C, with lower temperatures extending the working time and higher temperatures shortening it. ARDEX K 71 thick-layer levelling compound should be applied at temperatures above +5°C.

The ARDEX K 71 layer can be walked on after approx. 2 hours at +18°C to +20°C and, with a layer thickness of 10 mm and +20°C and 65% relative humidity, is ready for covering after 12 hours. Tiles can be laid once the surface is walkable. For natural stone that is sensitive to moisture, wait until it is dry.

Under good drying conditions (20°C, ≤65% RH), coatings can be applied after 24 hours at 20mm and after 48 hours at 50mm.

The substrate to be treated must be structurally sound and load-bearing. Existing movement joints in the substrate must be carried through into the final flooring system. In basement areas or other cold and damp environments, the space must be adequately heated and ventilated, and any residual moisture must be controlled or removed prior to application.

The integrity and mechanical strength of the substrate shall be thoroughly assessed prior to installation. Application must not be carried out on substrates that are not sufficiently sound. Installation on inadequate substrates may result in cracking and debonding.

Where application is to be carried out over ceramic tiles or similar finishes, the soundness of the tiles and their adhesion to the underlying substrate must be verified. If the tiles are not securely bonded, they must be stabilized and, where necessary, appropriate epoxy priming shall be applied.

ARDEX K 71 is suitable for severe high abrasion and heavy wheeled traffic, found in very heavy duty industrial workshops, warehouses, etc. ARDEX K 71 is intended for forklift traffic and similar use. Excessive service use, such as dragging of heavy metal equipment or loaded pallet trucks with protruding nails can cause gouging and surface damage. It's recommended to seal ARDEX K 71 for ease of cleaning and to give it some protection from staining if necessary.

Prior to application of final decorative concrete-look finishes, the substrate must be inspected and must achieve at least CT-C25-F5 performance in accordance with EN 13813.

ARDEX decorative concrete coatings must be applied strictly using ARDEX system products. All applications must be carried out in accordance with ARDEX technical application instructions. ARDEX shall not be held responsible for defects arising from non-compliance with these instructions.

If in doubt, apply to a test area first.

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Warning

Contains cement. Irritates the eyes and the skin. Wear suitable protective gloves and glasses. Avoid any contact with the eyes and the skin.

In case of eye contact, rinse immediately with plenty of water. If present, contact lenses should be removed immediately and the eyes rinsed thoroughly with plenty of water. If eye irritation persists, seek medical advice.

Handle with care during processing: avoid dust formation and release into the environment.

For commercial and professional use only!

May not come into children's hands.

Dispose of the container and its contents in a sealed state in accordance with applicable local/regional/national/ international regulations.

For further information, please refer to the relevant Safety Data Sheet (SDS).

Technical Data According To ARDEX Quality Standards

Mixing ratio: 4,50 l water for 25 kg powder

Bulk density: approx. 1,40 kg/l

Fresh weight: approx. 2,10 kg/l

Material requirements: approx. 1,70 kg powder/m²-mm

Working time*: approx 25 minutes

Walkability time*: approx. 2 hours

Ready for laying after*:	Covering	Thickness	Duration
	Tiles		2 hours
	Other Coatings	3 – 20 mm	24 hours
	Other Coatings	20 – 50 mm	48 hours

* All data is approximately based on laboratory test made at a temperature of +20°C and relative humidity of %65. Environmental conditions may change these values. Higher temperatures and lower relative humidity decrease these duration whereas lower temperature and higher relative humidity increases them.

Compressive strength: after 1 day approx. 10 N/mm²
after 28 days approx. 30 N/mm²

Bending tensile strength: after 1 day approx. 3 N/mm²
after 28 days approx. 7 N/mm²

Chair castor suitability: yes

Suitable for underfloor heating: yes

Labelling according to GHS/CLP: GHS 05 "corrosive"
Signal word: Danger

Labelling according to ADR: see relevant safety data sheet

EMICODE: EC 1 Plus – very low emissions PLUS

GISCODE: ZP1 – cementitious product, low chromate content

Packaging: 25 kg kraft bag

Storage and shelf life: Can be stored in dry rooms for approx. 12 months in the original sealed container.